

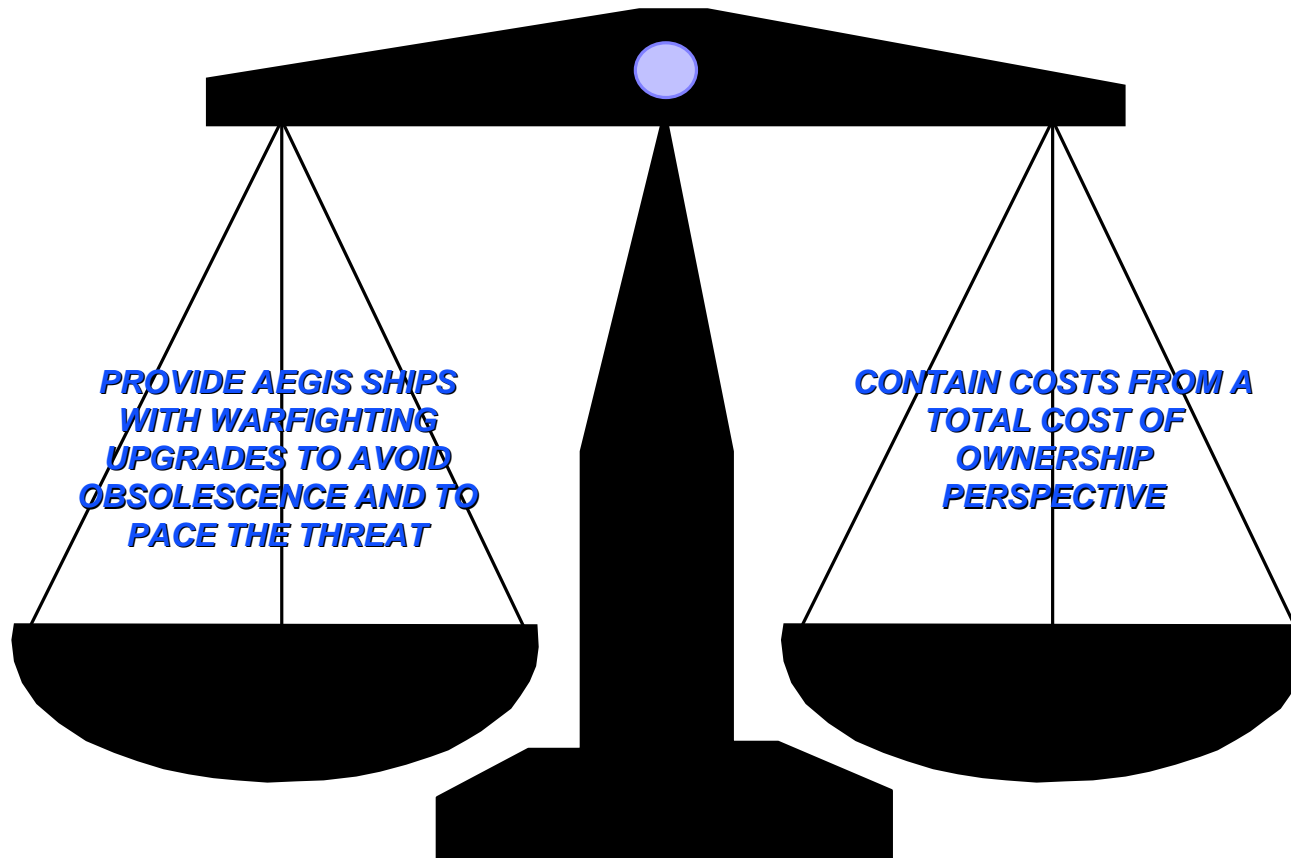


PMS 400B ATD Needs Brief for PEO(TAD)/PEO SC/AP ATD Industry Day

PRESENTED BY

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Advanced Computing and Displays
31 July 1997**

THE CHALLENGE . . . ACHIEVING A BALANCE



... From the Sea

19 September 1994

The Navy and Marine Corps White Paper in September 1992, titled *"From the Sea,"* defined a strategic concept intended to carry the Department of the Navy beyond the Cold War and into the 21st Century. It signalled a change in focus and, therefore, in priorities for the Naval Services towards power projection and the employment of naval forces to influence events in littoral regions of the world.

The purpose of U.S. Naval forces remains to project the power and influence of the Nation across the seas to foreign waters and shores in both peace and war. This White Paper updates and expands the strategic concept to address specifically the unique contributions of Naval expeditionary forces in peacetime operations, responding to cases, and in regional conflicts. In short, this latest edition amplifies the scope of our strategic concept, while confirming the course and speed for the Naval Service as defined in the original document.

John H. Dalton
John H. Dalton
Secretary of the Navy

J.M. Boorda
Admiral, U.S. Navy

Carl E. Mundy, Jr.
General, U.S. Marine Corps

RADM DANIEL J. MURPHY, Jr.

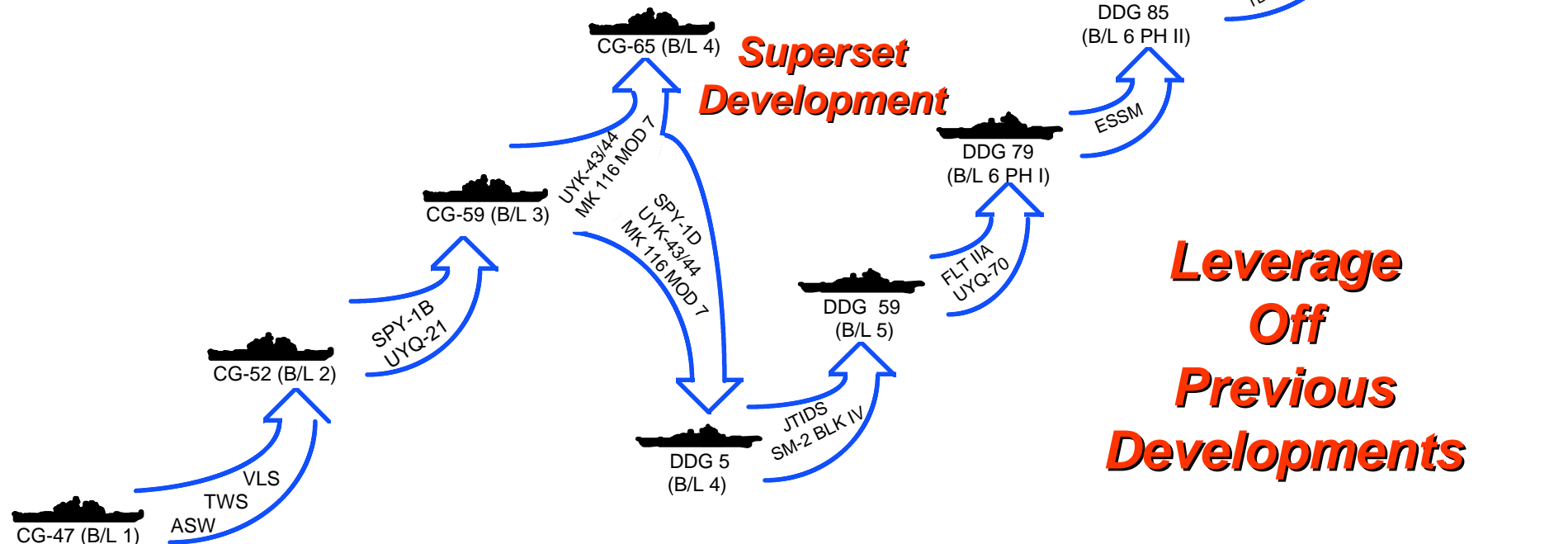
AUGUST 1996

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BASELINE STRATEGY (NEW CONSTRUCTION)



**Introduce
Warfighting
Capability
as "Baselines"**



Current PMS 400B ATD



- **Advanced Embedded Training for Shipboard Systems**

Top Needs



- **Advanced Computing**
 - **Automated System Recovery**
 - **Dynamic Resource Allocation**
 - **Real-Time Virtual Machine**
- **Reduced Manning**
 - **Human-Computer Interface Improvements**
 - **Display Improvements**
 - **Advanced Fault Detection/Isolation**

Top Needs (cont'd)



- **Advanced Radar Technology**
 - **High-Power MMIC Amplifier (X & S-Band)**
 - **Low Cost, High Power T/R Modules (X & S-Band)**
 - **Dynamic Radar Energy Resource Allocation Algorithms**
 - **Advanced Low Noise Amplification Receivers**
 - **Advanced Signal Processing Machines & Algorithms**
 - **Optical A/D Converters**
 - **Non-Invasive Radar Phase Measurement**
 - **High Efficiency DC-DC Converter**
 - **Low Cost Radar Environment Simulation/Stimulation**
 - **Real-Time Weather/Precipitation Sensing**

Transition Targets



- **ATD's With FY00 Start Will Miss Window for Transition to Last AEGIS Baseline for Forward-Fit and Baseline Conversion**
- **ATD's Must Target Back-Fit for Inclusion in AEGIS Ships**
- **ATD Transition Can Be Introduced as Baseline Changes as They Become Available**